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Embraer Perspective on the Introduction of SHM into Current and Future Commercial Aviation Programs

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Knowledge about Structural Health Monitoring (SHM) evolved considerably on the last 15 years and all major aircraft manufactures are conducting their own SHM Research and Development (R&D) programs. Nevertheless, it is still not common to see SHM systems playing significant role in current commercial aviation maintenance programs. This paper presents Embraer's perspective on the introduction of SHM into current and future commercial aviation programs based mainly on the latest discussions and changes to the Air Transport Association's Maintenance Steering Group 3 (MSG-3) methodology, used for scheduled maintenance program development. Effects on the maintenance review board process and aircraft maintenance manuals are also analyzed. Additionally, it briefly presents Embraer's general suggestions that should be taken into consideration by the SHM community in order to make it possible to start realizing some of the SHM potential.

Ключевые слова:

Содержание.

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